

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/665,671
Source: 1FW16
Date Processed by STIC: 12/3/05

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>), EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/24/05

Raw Sequence Listing Error Summary

ERROR DETECTED
SUGGESTED CORRECTION
SERIAL NUMBER: 10/665,671

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleic
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line **not exceed 72 characters** in length. This includes white spaces.
- 3 Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
(OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
(NEW RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 9 Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 Use of <220>
→ Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFW16

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/665,671

DATE: 12/03/2005
TIME: 09:47:08

Input Set : A:\4987 US.txt
Output Set: N:\CRF4\12032005\J665671.raw

3 <110> APPLICANT: ANDERSEN, Mark R.
 4 HUNKAPILLER, Michael W.
 5 LIVAK, Kenneth J.
 6 SPIER, Eugene G.
 7 WENZ, Michael H.
 9 <120> TITLE OF INVENTION: Methods and Compositions for Detecting Targets
 11 <130> FILE REFERENCE: 4987 US
 13 <140> CURRENT APPLICATION NUMBER: US 10/665,671
 14 <141> CURRENT FILING DATE: 2003-09-19
 16 <150> PRIOR APPLICATION NUMBER: US 60/412,225
 17 <151> PRIOR FILING DATE: 2002-09-19
 19 <160> NUMBER OF SEQ ID NOS: 25
 21 <170> SOFTWARE: PatentIn version 3.3
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 49
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Human
 28 <400> SEQUENCE: 1
 29 ttgcctgctc gacttagatc aaaggagacg cggctgcttt cagcctcat 49
 32 <210> SEQ ID NO: 2
 33 <211> LENGTH: 49
 34 <212> TYPE: DNA
 35 <213> ORGANISM: Human
 37 <400> SEQUENCE: 2
 38 ttgcctgctc gacttagagg gtcacagtag gtggtgcttt cagcctcac 49
 41 <210> SEQ ID NO: 3
 42 <211> LENGTH: 33
 43 <212> TYPE: DNA
 44 <213> ORGANISM: Human
 46 <400> SEQUENCE: 3
 47 ggggatagtg gctgcatcac tggatagcga cgt 33
 50 <210> SEQ ID NO: 4
 51 <211> LENGTH: 49
 52 <212> TYPE: DNA
 53 <213> ORGANISM: Human
 55 <400> SEQUENCE: 4
 56 ttgcctgctc gacttagatc aaaggagacg cggcagtgg tttccaacg 49
 59 <210> SEQ ID NO: 5
 60 <211> LENGTH: 51
 61 <212> TYPE: DNA
 62 <213> ORGANISM: Human
 64 <400> SEQUENCE: 5
 65 ttgcctgctc gacttagagg gtcacagtag gtggacagtg gtttccaac a 51

*Dose Not Comply
Attached Diskette Neede*

P.4

RAW SEQUENCE LISTING DATE: 12/03/2005
 PATENT APPLICATION: US/10/665,671 TIME: 09:47:08

Input Set : A:\4987 US.txt
 Output Set: N:\CRF4\12032005\J665671.raw

68 <210> SEQ ID NO: 6	
69 <211> LENGTH: 32	
70 <212> TYPE: DNA	
71 <213> ORGANISM: Human	
73 <400> SEQUENCE: 6	
74 tgaacacacc gggatcaact ggatagcgac gt	32
77 <210> SEQ ID NO: 7	
78 <211> LENGTH: 18	
79 <212> TYPE: DNA	
80 <213> ORGANISM: Human	
82 <400> SEQUENCE: 7	
83 ttgcctgctc gacttaga	18
86 <210> SEQ ID NO: 8	
87 <211> LENGTH: 18	
88 <212> TYPE: DNA	
89 <213> ORGANISM: Human	
91 <400> SEQUENCE: 8	
92 acgtcgctat ccagtgtat	18
95 <210> SEQ ID NO: 9	
96 <211> LENGTH: 15	
97 <212> TYPE: DNA	
98 <213> ORGANISM: Human	
100 <400> SEQUENCE: 9	
101 cccgcgtctcc tttga	15
104 <210> SEQ ID NO: 10	
105 <211> LENGTH: 16	
106 <212> TYPE: DNA	
107 <213> ORGANISM: Human	
109 <400> SEQUENCE: 10	
110 ccacctaactg tgaccc	16
113 <210> SEQ ID NO: 11	
114 <211> LENGTH: 70	
115 <212> TYPE: DNA	
116 <213> ORGANISM: Human	
118 <400> SEQUENCE: 11	
119 ttgcctgctc gacttagatc cgcgcttcct ttgatttta caactcttt tcggtaaaa	60
121 acgagatcaa	70
124 <210> SEQ ID NO: 12	
125 <211> LENGTH: 71	
126 <212> TYPE: DNA	
127 <213> ORGANISM: Human	
129 <400> SEQUENCE: 12	
130 ttgcctgctc gacttagatc cacctaactgt gaccctttgt accactcttt ttcggtaaaa	60
132 aacgagatca g	71
135 <210> SEQ ID NO: 13	
136 <211> LENGTH: 37	
137 <212> TYPE: DNA	
138 <213> ORGANISM: Human	
140 <400> SEQUENCE: 13	

RAW SEQUENCE LISTING DATE: 12/03/2005
PATENT APPLICATION: US/10/665,671 **TIME:** 09:47:08

Input Set : A:\4987 US.txt
Output Set: N:\CRF4\12032005\J665671.raw

141 taccagctta acacatagca tcactggata gcgacgt	37
144 <210> SEQ ID NO: 14	
145 <211> LENGTH: 73	
146 <212> TYPE: DNA	
147 <213> ORGANISM: Human	
149 <400> SEQUENCE: 14	
150 ttgcctgctc gacttagatc cgcgctccct ttgatttcta ccacttttt tccaataact	60
152 aaaggtaaaa cat	73
155 <210> SEQ ID NO: 15	
156 <211> LENGTH: 73	
157 <212> TYPE: DNA	
158 <213> ORGANISM: Human	
160 <400> SEQUENCE: 15	
161 ttgcctgctc gacttagatc cacctactgt gaccctttgt accactcttt ttcaataact	60
163 aaaggtaaaa cac	73
166 <210> SEQ ID NO: 16	
167 <211> LENGTH: 37	
168 <212> TYPE: DNA	
169 <213> ORGANISM: Human	
171 <400> SEQUENCE: 16	
172 ggcataataaa tctccaaaga tcactggata gcgacgt	37
175 <210> SEQ ID NO: 17	
176 <211> LENGTH: 68	
177 <212> TYPE: DNA	
178 <213> ORGANISM: Human	
180 <400> SEQUENCE: 17	
181 ttgcctgctc gacttagatc cgcgctccct ttgatttcta ccacttttt tccagtggtt	60
183 ttccaaacg	68
186 <210> SEQ ID NO: 18	
187 <211> LENGTH: 70	
188 <212> TYPE: DNA	
189 <213> ORGANISM: Human	
191 <400> SEQUENCE: 18	
192 ttgcctgctc gacttagatc cacctactgt gaccctttgt accactcttt ttcacagtgg	60
194 ttttccaaaca	70
197 <210> SEQ ID NO: 19	
198 <211> LENGTH: 32	
199 <212> TYPE: DNA	
200 <213> ORGANISM: Human	
202 <400> SEQUENCE: 19	
203 tgaacacaccc ggatatcaact ggatacgac gt	32
206 <210> SEQ ID NO: 20	
207 <211> LENGTH: 18	
208 <212> TYPE: DNA	
209 <213> ORGANISM: Human	
211 <400> SEQUENCE: 20	
212 ttgcctgctc gacttaga	18
215 <210> SEQ ID NO: 21	
216 <211> LENGTH: 18	

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/665,671

DATE: 12/03/2005

TIME: 09:47:08

Input Set : A:\4987 US.txt
 Output Set: N:\CRF4\12032005\J665671.raw

```

217 <212> TYPE: DNA
218 <213> ORGANISM: Human
220 <400> SEQUENCE: 21
221 acgtcgctat ccagtat
224 <210> SEQ ID NO: 22
225 <211> LENGTH: 15
226 <212> TYPE: DNA
227 <213> ORGANISM: Human
229 <400> SEQUENCE: 22
230 cccgcgtctcc tttga
233 <210> SEQ ID NO: 23
234 <211> LENGTH: 16
235 <212> TYPE: DNA
236 <213> ORGANISM: Human
238 <400> SEQUENCE: 23
239 ccacctaactg tgaccc
242 <210> SEQ ID NO: 24
243 <211> LENGTH: 15
244 <212> TYPE: DNA
245 <213> ORGANISM: Artificial
247 <220> FEATURE:
248 <223> OTHER INFORMATION: Artificial DNA
250 <400> SEQUENCE: 24
251 catgccaatg acggaa
254 <210> SEQ ID NO: 25
255 <211> LENGTH: 15
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial
259 <220> FEATURE:
260 <223> OTHER INFORMATION: Artificial DNA
262 <400> SEQUENCE: 25
263 catgcgaatg acggc
  
```

18

15

16

15 Error
 Summary Sheet)

15

*insufficient - what is
 the source of genetic material?
 (see item 11 on*

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 12/03/2005
PATENT APPLICATION: US/10/665,671 TIME: 09:47:09

Input Set : A:\4987 US.txt
Output Set: N:\CRF4\12032005\J665671.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:24,25

VERIFICATION SUMMARY DATE: 12/03/2005
PATENT APPLICATION: US/10/665,671 TIME: 09:47:09

Input Set : A:\4987 US.txt
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